3: Skrine G-3 (1922-1924) 1926 All Sinkiang All

342 duty as a chimney, open during heavy rain is solved in an ingenious fashion. The felt cover is pulled almost but not quite over it; the corner of the felt opposite to the direction from which the rain is coming is then lifted on the end of a forked pole away from the rim of the "chimney," thus making a kind of vertical ventilator facing away from the rain. The other end of the forked pole is held firmly in mid-air by means of guy ropes attached to the sides of the tent. *Aq-ois* stand a gale very well, their shape being such that the higher the wind the more firmly the structure is pressed to the ground; I never heard of one being blown away. To make assurance doubly sure, however, a large stone is sometimes placed in the tent and the woodwork of the roof anchored to it by a rope.

The putting together of the *aq-ois* is always done by the women, who are remarkably quick about it. I have seen a large one put up by two girls in half an hour. A middle-sized *aq-oi* forms three camel- or yak-loads when taken down. For short distances it can be moved bodily by ten or twelve men, who range themselves round the *inside* of the structure and lift it at a given signal. As they cannot see where they are going, they have to be steered by some one outside.

353 The interior of a typical *aq-oi* is full of interest. A fire burns merrily in the middle and a cauldron of *mach* simmers gently upon it. Farthest from the door is the *ashkhana* or kitchen, screened off from the rest of the hut by gaily-coloured mats made of reeds tightly wound with dyed wool. In this sanctum the goodwife keeps her milk, cream and curds in vast wooden bowls; it is really a dairy, not a kitchen. Another arc of the circle is occupied by a row of very young lambs, which lie or stand tethered closely to a rope pegged down along the walls. In wet weather the young lambs, if any, are kept most of the day inside the tents; once when I took refuge for the night in an *aq oi* and threw myself down upon the felt which had been spread for me, I was astonished to feel what I thought was a pillow under the top end of the rug move when I put my head on it; it was a solitary lamb, very woolly and very surprised.

352 Round the walls, from the convenient pegs provided by the upper ends of the trellis, hang all kinds of odds and ends; *bashtiks* or bright-hued saddle-bags of patchwork or painted leather, sieves, fur-rimmed hats, big balls of newly-spun wool, skins full of curds, hatchets, *chapans* or quilted coats and so on. There will usually be a *dotar* or long-stemmed guitar made from a gourd, and an ancient matchlock of immense length with a

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a proponent of the theory of climatic alternations, called the phenomenon "the pulse of Asia."

The most important of the multiple influences is believed to be that of the economic effects of climatic changes. When the climate is warm and moist, the land of the nomads is fertile enough to support the nomads and their herds, but when the climate becomes drier and colder, the rivers and lakes shrink and the pasturage is reduced. This cuts down the food supply and forces the nomads to rampage into the land of their neighbors. Speaking of the thirteenth century, Arnold Toynbee declared that the "paroxysm of aridity coincided in date with the demoniac eruption of the Mongols, and it will be seen that the physiographical recoil towards humidity likewise corresponds in date with the rapid ebb of the Mongols." (A Study of History, vol. III, p. 439).

Although the outbursts and recessions of the nomads were periodic, the rigid periodization was too mechanical and many scholars have discredited climate as the sole factor. Huntington suggests that four factors may have impelled the huge migration of the nomadic peoples, namely: climate, the inherent quality of the people especially as manifested by the leaders, the pull exerted by the wealth and the opportunities of the agricultural lands, and the push exerted by over-population. (Mainsprings of Civilization, p. 568).

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A period of peace and prosperity would allow the population of the nomads to increase. However, in the desolate steppes, food was dependent upon flocks of sheep and herds of cattle and horses, and the people, unlike their sedentary neighbors, did not have the tradition nor the facilities for food storage. Any sudden change in climate which caused a reduction of pasturage and water supply would create a 'time of troubles" and compel the nomadic people to migrate in search of food and pasturage.

When the nomads were experiencing a "time of troubles," the lush riches and the military weakness of the settled peoples would tempt border tribes to encroach upon the agrarian regions. Distress and discontent at home and the lure of wealth abroad furnish the push and the pull of Toynbee's theories. When the leavening of bold leadership and ideas were added, the nomads often were induced to burst out from the steppes of Asia and to set the world in commotion.

Other scholars entirely discount the influence of climate and seek the explanation for the advance and withdrawal of the nomads in social and political conditions. Owen Lattimore, who has given much thought to this question, (cf. Inner Asian Frontiers, passim), lists a number of reasons other than climate, for the eruption of the nomads. There were, for example, technological factors like the invention of the powerful compound bow and the technique of mounted archery which gave the nomads an edge over their enemies.

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The Chinese had to adopt the nomad bow and the technique of mounted archery before they could meet the nomads on equal terms.

Another factor, according to Lattimore, was the pastoral economy of the nomads which led to migration. Horses and cattle cannot graze on fields that have been cropped by sheep and goats. Therefore, the nomads whose livelihood depended upon their herds and flocks, must continually seek new pastures. The claims to pasturelands and the right of movement led to wars. The continuous wars stimulated the rise of leaders, hard-headed men who survived the hurly-burly of warfare and politics of the steppes and deserts. Finally, a supreme leader emerged who would then weld the various groups into a grand confederation strong enough to encroach upon the neighboring regions for land, for the profits of trade, and for revenue and tribute from the conquered peoples.

According to Lattimore, the nomads who invaded the marginal zone between the steppes and the settled lands, were not pure nomads but were semi-settled. Their wars of conquest were not only for pastures for their herds and flocks but for land, for the riches of the cities, and for the proceeds of commerce. Moreover, the cycles of their invasion and retreat began only a few centuries before the Christian era when they split from the settled peoples on China's northwestern frontier and when they acquired the technology of nomadic warfare. The true nomads on the steppes evolved from the mixed nomads, not vice versa.

The migrations which led to conquest over a wide area, such as those carried out by the Huns, the Turks and the Mongols, normally did not begin with the true nomads but with the mixed nomads, and were caused by (1) a group breaking away from the mixed nomads in order to become true nomads; or (2) a group breaking away from the true nomads in order to revert back to mixed nomadism. The Huns, Turks, and Mongols had fixed bases of operation and their conquests were for land.

Under these circumstances, according to Lattimore, the cycles of nomadic expansion and withdrawal each went through the following process:

1. The maintenance of large armies of mounted warriors to conquer land for the profit of trade and revenue from subject peoples;
2. A dichotomy of nomad society. The nomadic warriors who went forth to conquer and who were left to garrison conquered territories had control of the sources of wealth but declined militarily. The warriors who stayed in the steppes as the military reserve continued to be warlike but gradually became impoverished;
3. A split within the nomad state between those in the conquered areas and those in the steppes, leading to decline and and withdrawal.

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6. Summary

In summary, the workings of the historical process represented